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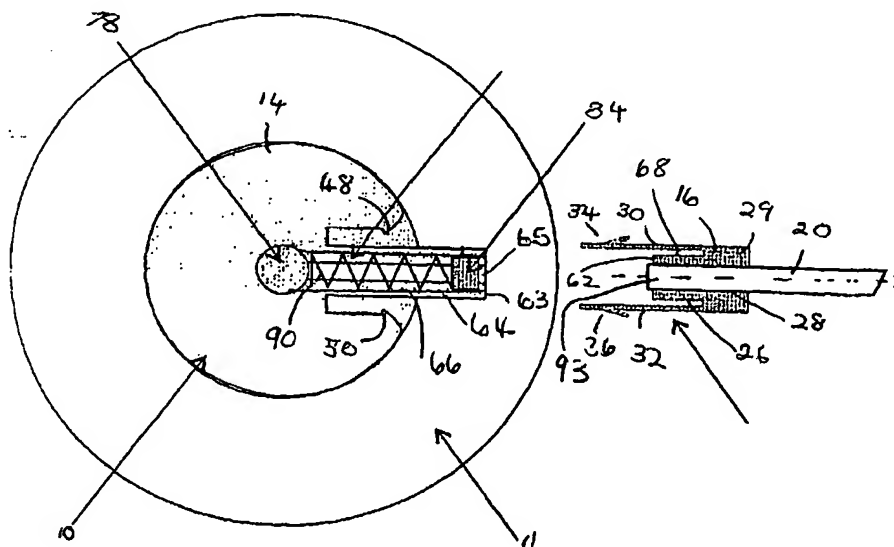
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[Continued on next page]

(54) Title: INFUSION SET WITH TAPE



(57) Abstract: An infusion set (1, 100, 100') is attached to the skin of a wearer by a conformable tape or path (220, 220'). The tape is of a multilayer construction, comprising a breathable layer (226, 226'), preferably formed from a silicone elastomer or hydrocolloid, and optionally a support layer (222), such as a layer of polyester. An adhesive layer (240) is provided for attaching the tape to the wearer's skin. A second adhesive layer (234), or a mechanical means (252) attaches the tape to the infusion set.

WO 02/083206 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 017 328 A (FISCHELL ROBERT E ET AL) 25 January 2000 (2000-01-25)	1,10-14, 16-18
Y	column 8, line 50 - column 12, line 2; figure 8	2-9,15
Y	DE 42 41 874 A (PACIFIC CHEM CO LTD) 16 June 1994 (1994-06-16) claim 1	2-9,15
A	US 6 086 575 A (MEJSLOV JESPER) 11 July 2000 (2000-07-11) figure 4	18
A	US 5 527 344 A (ARZBAECHER ROBERT C ET AL) 18 June 1996 (1996-06-18) column 5, line 13 - line 40; figure 2	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6017328	A	25-01-2000	US 5545143 A	13-08-1996
			AT 187654 T	15-01-2000
			DE 69422073 D1	20-01-2000
			DE 69422073 T2	06-04-2000
			DK 615768 T3	10-04-2000
			EP 0615768 A2	21-09-1994
DE 4241874	A	16-06-1994	FR 2698787 A1	10-06-1994
			GB 2273044 A ,B	08-06-1994
			US 5505956 A	09-04-1996
			DE 4241874 A1	16-06-1994
US 6086575	A	11-07-2000	DE 29905068 U1	09-09-1999
US 5527344	A	18-06-1996	NONE	